

# Marine Physical Laboratory

AD-A247 731



DTIC  
ELECTE  
MAR 16 1992  
S C D

## AUSS and ATV Support Services

Fred H. Fisher  
Principal Investigator

*Final Report to the Office of Naval Research  
Contract N00014-89-D-0142-0016 for the  
Period 15 July 1990 - 30 September 1991*

MPL-U-9/92  
January 1992

*Approved for public release; distribution unlimited.*



University of California, San Diego  
Scripps Institution of Oceanography

92 3 13 027

92-06622



REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1. Agency Use Only (Leave Blank).		2. Report Date. January 1992		3. Report Type and Dates Covered. Final Report
4. Title and Subtitle. AUSS and ATV Support Services			5. Funding Numbers. N00014-89-D-0142-0016	
6. Author(s). F. H. Fisher			Project No. Task No.	
7. Performing Monitoring Agency Name(s) and Address(es). University of California, San Diego Marine Physical Laboratory Scripps Institution of Oceanography San Diego, California 92152			8. Performing Organization Report Number. MPL-U-9/92	
9. Sponsoring/Monitoring Agency Name(s) and Address(es). Office of Naval Research Department of the Navy 800 North Quincy Street Arlington, VA 22217-5000 Code 122D			10. Sponsoring/Monitoring Agency Report Number.	
11. Supplementary Notes.				
12a. Distribution/Availability Statement. Approved for public release; distribution is unlimited.			12b. Distribution Code.	
13. Abstract (Maximum 200 words).  The Marine Physical Laboratory provided ship support services and technical support to the MARSEA-15 for NOSC projects Advanced Unmanned Search System (AUSS) and Advanced Tethered Vehicle (ATV). These programs were of direct interest to MPL in our research areas of autonomous and tethered vehicles.				
14. Subject Terms.			15. Number of Pages. 1	
			16. Price Code.	
17. Security Classification of Report. Unclassified	18. Security Classification of This Page. Unclassified	19. Security Classification of Abstract. Unclassified		20. Limitation of Abstract. None

# *AUSS and ATV Support Services*

**Fred H. Fisher**  
**Principal Investigator**

**Final Report to the Office of Naval Research**  
**Contract N00014-89-D-0142-0016 for the Period**  
**July 15, 1990 - September 30, 1991**

Accession For

DTIC

DTIC

DTIC

DTIC

DTIC

DTIC

DTIC

DTIC

DTIC

A-1

---

## *ABSTRACT*

The Marine Physical Laboratory provided ship support services and technical support to the MARSEA-15 for Naval Ocean Systems Center (NOSC), San Diego, CA projects Advanced Unmanned Search System (AUSS) and Advanced Tethered Vehicle (ATV). These programs were of direct interest to MPL in our research areas of autonomous and tethered vehicles.

---

## *OBJECTIVE*

The objective of the effort was to provide support services to AUSS and ATV. ATV is a tethered vehicle which is able to do a variety of underwater work, salvage and recovery operations in the deep ocean. AUSS is an untethered free swimming vehicle system designed to conduct deep ocean search operations. AUSS was in the test, evaluation and demonstration phase of the program where as the ATV had recently completed test, evaluation and the demonstration phase.

---

## *COMPLETED WORK*

The services provided included power, security, berthing, crane and rigging support, and shop support to assist in shipboard installation and removal of project equipment.

## ONR/MPL Report Distribution

Scientific Officer (3)

Code 122D

Department of the Navy

800 North Quincy Street

Arlington, VA 22217-5000

Administrative Grants Officer (1)

Office of Naval Research

Resident Representative N66018

University of California, San Diego

(Mail Code 0234) 8603 La Jolla Shores Drive

San Diego, CA 92093-0234

Director

Naval Research Laboratory

Atten: Code 2627

Washington, D.C. 20375

Defense Technical Information Center (4)

Building 5, Cameron Station

Alexandria, VA 22314